

Aluminium@ alloy - contains silicon, and either magnesium@, copper@ or nickel@ with titanium@, zirconium@ and vanadium@ to increase hot creep resistance

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Abstract of FR2690927

Casting alloy based on Al contains in wt.% 4-23 Si; at least one from 0.1-1 Mg; 0.3-4.5 Cu and 0.2-3 Ni; Plus 0-1.0.2 Ti; 0.1-0.2 Zr and 0.2-0.4 V.
Pref. the alloy belong to the group consisting of AA356, AA319, AA413; AA392 according to the names of the Aluminium Association.
USE/ADVANTAGE - Making cylinder heads and cylinders. The addition of Ti, Zr and V increases the hot creep resistance of the alloy without harming its ductility.

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